

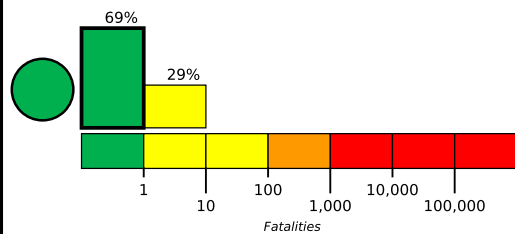
M 5.5, 43 km W of Methven, New Zealand

Origin Time: 2023-09-19 21:14:49 UTC (Wed 09:14:49 local)

Location: 43.7086° S 171.1206° E Depth: 12.8 km

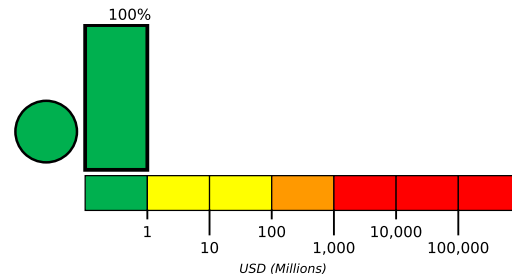
Created: 2 weeks, 4 days after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

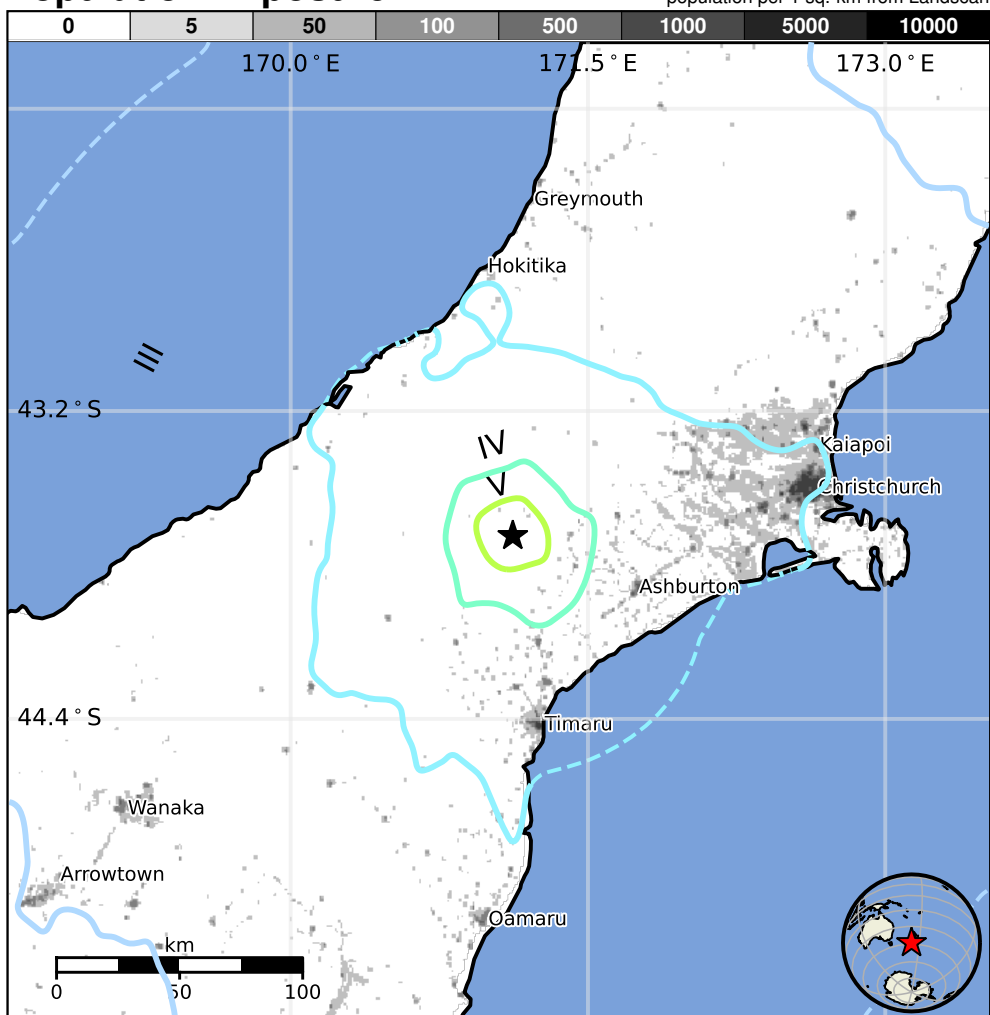


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	197k	495k	4k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are reinforced masonry and unreinforced brick with timber floor construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1974-09-21	243	5.8	V(11k)	—
1993-08-10	367	6.9	VII(2k)	—
1968-05-23	233	7.2	IX(1k)	3

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Methven	1k
IV	Pleasant Point	1k
IV	Timaru	28k
IV	Burnham	1k
IV	Leeston	1k
IV	Christchurch	364k
IV	Ashburton	30k
IV	Kaiapoi	10k
III	Greymouth	9k
III	Oamaru, Waitaki District	13k
III	Queenstown	10k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000kwrq#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000kwrq